

METHOD FOR ENHANCING ANIMAL GROWTH  
AND CELL PROLIFERATION BY ELIMINATION OF THE  
CYCLIN-DEPENDENT KINASE INHIBITOR FUNCTION OF P27<sup>KIP1</sup>

5

Abstract of the Disclosure

10 This invention provides a recombinant non-human animal  
lacking the cyclin-dependent kinase inhibitor function of  
p27<sup>KIP1</sup> and the method for producing the same. This  
invention also provides a method for increasing the  
proliferation of the thymic T-cells by treating the thymic  
T-cells to eliminate the cyclin-dependent kinase  
inhibition function of p27<sup>KIP1</sup>. This invention also  
15 provides a method for increasing the proliferation of  
hematopoietic cells which comprises treating the  
hematopoietic cells to eliminate the cyclin-dependent  
kinase inhibitor function of p27<sup>KIP1</sup>, thereby increasing  
the proliferation of the hematopoietic cells. This  
20 invention further provides a method for alleviating  
symptoms of an AIDS patient comprising steps of: a)  
collecting the lymphocytes or other cells from an AIDS  
patient; b) treating the collected cells to eliminate the  
cyclin-dependent kinase inhibition function of p27<sup>KIP1</sup>; and  
25 c) re-introducing the treated cells to the AIDS patient.